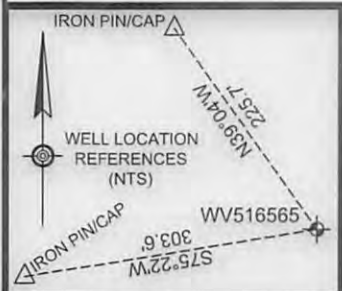


EQT PRODUCTION COMPANY  
WELL NO. 516565 - Ashley E. Ness, Jr. et al  
PAGE 2 OF 2

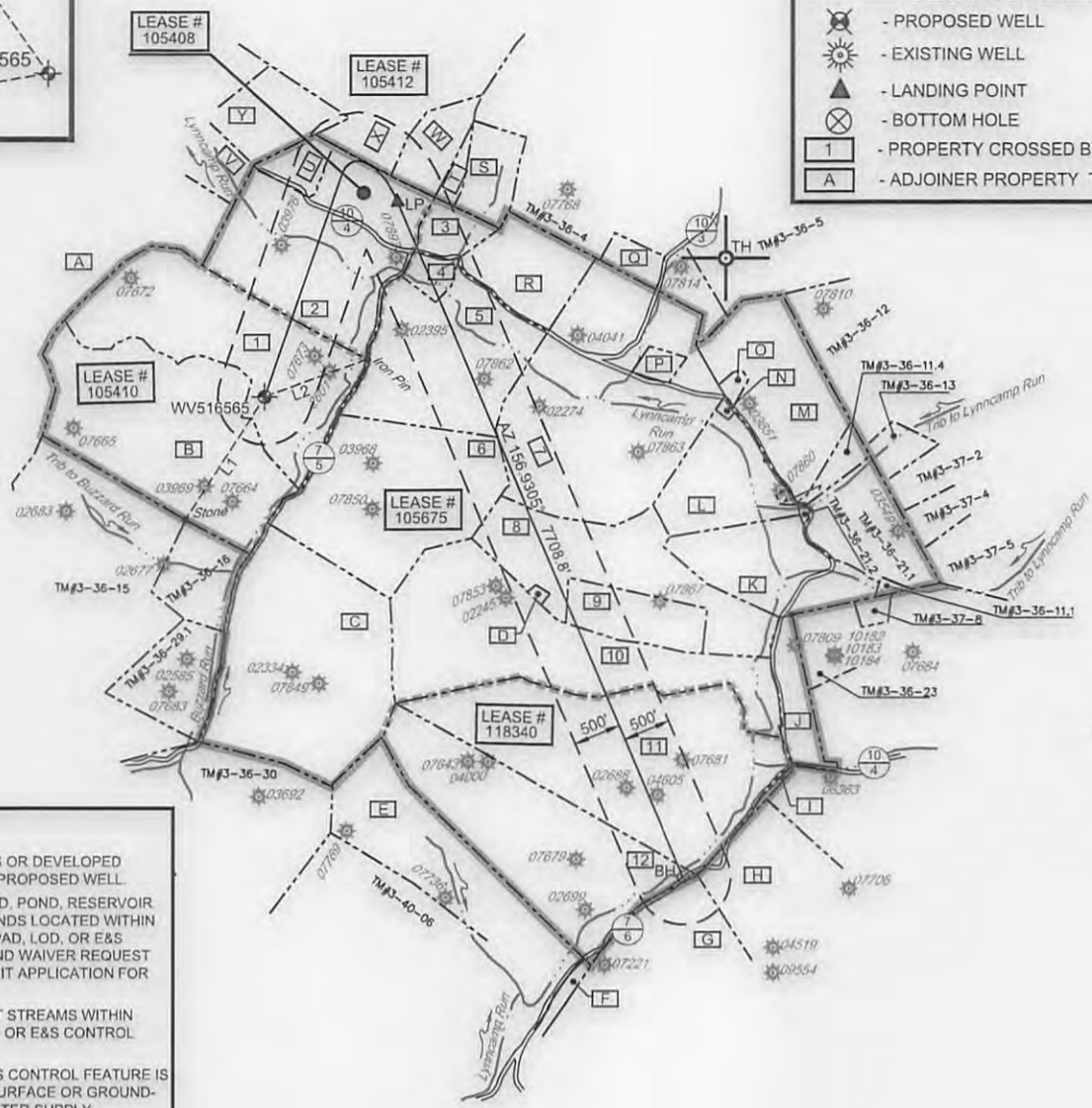
LATITUDE 39°32'30" TH 5260'  
LATITUDE 39°32'30" BH 760'

LONGITUDE 80°55'00" TH 5474'  
LONGITUDE 80°55'00" BH 10443'

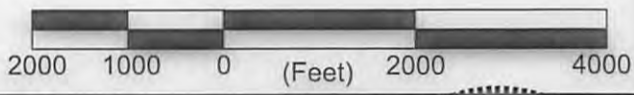


**LEGEND**

- OUTER LEASE BOUNDARY
- LEASE BOUNDARY
- SURFACE TRACT LINES
- WELL REFERENCE LINES
- 11 - COUNTY ROADS
- PUBLIC ROADS
- BLUE-LINE STREAMS
- ☉ - PROPOSED WELL
- ☼ - EXISTING WELL
- ▲ - LANDING POINT
- ⊗ - BOTTOM HOLE
- T - PROPERTY CROSSED BY BORE
- A - ADJOINER PROPERTY TAB



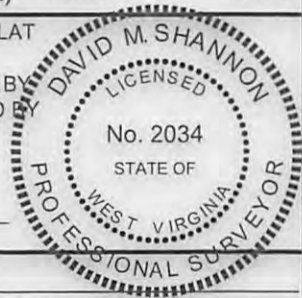
- NOTES**
1. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF THE PROPOSED WELL.
  2. PERENNIAL STREAM, WETLAND, POND, RESERVOIR OR LAKE - THERE ARE WETLANDS LOCATED WITHIN 100 FEET OF THE PROPOSED PAD, LOD, OR E&S CONTROL. REFER TO WETLAND WAIVER REQUEST ASSOCIATED WITH THIS PERMIT APPLICATION FOR MORE DETAIL.
  3. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED PAD, LOD, OR E&S CONTROL FEATURE.
  4. PROPOSED PAD, LOD, OR E&S CONTROL FEATURE IS GREATER THAN 1000' FROM SURFACE OR GROUND-WATER INTAKE OF PUBLIC WATER SUPPLY.
  5. CENTER OF PAD IS 625 FEET FROM OCCUPIED DWELLING STRUCTURE AND AGRICULTURAL BUILDINGS LARGER THAN 2500 SQUARE FEET.
  6. IT IS NOT THE INTENTION OF THIS PLAT TO REPRESENT A COMPLETE BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON. BOUNDARIES AS SHOWN TAKEN FROM RECORD DEED DESCRIPTIONS, TAX MAPS, AND SUPPLEMENTAL FIELD SURVEY.
  7. OWNERSHIP DATA GATHERED FROM COUNTY PUBLIC TAX AND DEED RECORDS.
  8. LATERAL GEOMETRY BASED ON WEST VIRGINIA SPC NORTH, NAD 27 DATUM



FILE NO. 7936-002  
 DRAWN BY DMS  
 SCALE 1 INCH = 2000 FEET  
 MIN DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION

*David M. Shannon*  
 P.S. #2034



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

**LDG**

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL

IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: WATERSHED BUZZARD RUN - NORTH FORK HUGHES RIVER  
 COUNTY/DISTRICT RITCHIE COUNTY - CLAY DISTRICT  
 SURFACE OWNER CHRISTA J. SMITH  
 OIL & GAS ROYALTY OWNER ASHLEY E. NESS JR., ET AL

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) \_\_\_\_\_

TARGET FORMATION: MARCELLUS  
 WELL OPERATOR: EQT PRODUCTION COMPANY  
 ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280  
BRIDGEPORT, WV 26330



DATE 1-17-2017  
 OPERATORS WELL NO. WV516565  
 API WELL NO. 47 085 10262H6A  
 STATE 47 COUNTY 085 PERMIT 10262H6A

ELEVATION (EXIST) 945.0 (PROP) 938.8  
 QUADRANGLE PULLMAN - SEC. 2  
 ACREAGE 69.88 AC (DEED)  
 ACREAGE 150 AC LEASE# 105410

ESTIMATED DEPTH 6183  
 DESIGNATED AGENT REX C. RAY  
 ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280  
BRIDGEPORT, WV 26330

03/03/2017

COUNTY NAME  
PERMIT

EQT PRODUCTION COMPANY  
WELL NO. 516565 - Ashley E. Ness, Jr. et al  
PAGE 1 OF 2

MINERAL OWNERS	AREA (Ac ±)	LEASE #
David A. Dorward, et al	77	105408
Orma M. Johnson, et al	627	105675
Richard Barnard, et al	170	118340
W.A. Flanagan Heirs	353.5	105412

UTM NAD83 ZONE 17N (METERS)	TOPHOLE	N-4342867.78	E-505601.07
	LANDING PT	N-4343500.02	E-506017.14
	BOT HOLE	N-4341354.76	E-506973.45

NAD27 SPC FEET NORTH ZONE	TOPHOLE	N-270954.17	E-1593460.68
	LANDING PT	N-273006.09	E-1594860.68
	BOT HOLE	N-265913.76	E-1597881.35

NAD27 GEO LAT(N) LONG(W)	TOPHOLE	N039.235013	W080.935271
	LANDING PT	N039.240707	W080.930444
	BOT HOLE	N039.221368	W080.919385

PROPERTIES CROSSED BY BORE					
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL #	ACREAGE
1	CHRISTA J. SMITH	CLAY	3-36	P/O #7	69.88 Ac±
2	FOUSS FARMS, LLC	CLAY	3-36	3.4	70.65 Ac±
3	RANDALL O. LAMM	CLAY	3-36	3.3	7.43 Ac±
4	JOSEPH & VIRGINIA M. MEANS	CLAY	3-36	8.1	4.62 Ac±
5	FAITH E. COTTRILL	CLAY	3-36	8.2	51.88 Ac±
6	JOHN R. & ROSE MARIE SUDOL	CLAY	3-36	17	59.56 Ac±
7	PAUL W. HILVERS	CLAY	3-36	9	90.70 Ac±
8	PEGGY L. VANMETER ET AL	CLAY	3-36	20	48.88 Ac±
9	EVERETT MCATEE	CLAY	3-36	20.1	16.53 Ac±
10	PEGGY WINCE	CLAY	3-36	19	69.5 Ac±
11	PEGGY WINCE	CLAY	3-36	33	95.788 Ac±
12	PEGGY WINCE	CLAY	3-36	32	72.63 Ac±

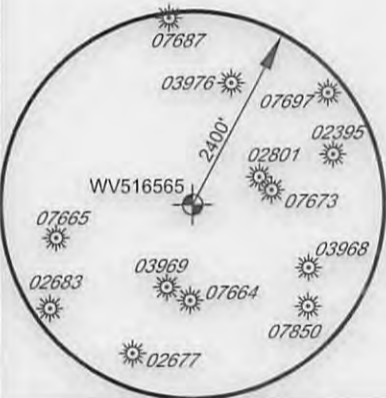
PROPERTIES ADJOINING THOSE CROSSED BY BORE (ABOVE)					
TAB	OWNER	DISTRICT	TAX MAP #	PARCEL #	ACREAGE
A	ELF, LLC	CLAY	3-36	6	184.724 Ac±
B	MICHAEL L. DAVIS	CLAY	3-36	P/O #7	79.21 Ac±
C	FRANK J. OSTROWSKY	CLAY	3-36	18	89.25 Ac±
D	BERNARD & CAROL LEE MCATEE	CLAY	3-36	20.2	0.45 Ac±
E	ROBERT F. & IRENE D. PUGH	CLAY	3-36	31	51.9 Ac±
F	ROBERT F. & IRENE D. PUGH	CLAY	3-40	10.1	2.89 Ac±
G	JUNE C. BERKLEY FAMILY TRUST	CLAY	3-40	25	81.37 Ac±
H	CLIFTON A. & SHIRLEY M. SAMPLES, ET AL	CLAY	3-36	37	32 Ac±
J	CHARLES E. COTTRILL, JR	CLAY	3-36	33.1	1.212 Ac±
J	CAROL MAY MCATEE	CLAY	3-36	34	11.69 Ac±
K	GARY COTTRILL, JR & CAROLYN	CLAY	3-36	21	33.065 Ac±
L	GARY COTTRILL, JR & CAROLYN	CLAY	3-36	11	23.322 Ac±
M	GARY W. COTTRILL	CLAY	3-36	11.5	40.847 Ac±
N	JEFFREY L. & HEATHER D. MACE	CLAY	3-36	11.2	0.5 Ac±
O	SHAWN MICHAEL GIBBONS	CLAY	3-36	11.3	1.563 Ac±
P	RANDALL C. & CYNTHIA ANN OWENS	CLAY	3-36	9.1	3.9997 Ac±
Q	JOSHUA DEARTH	CLAY	3-36	4.1	5 Ac±
R	FOUSS FARMS, LLC	CLAY	3-36	8	19 Ac±
S	RANDALL O. LAMM	CLAY	3-36	3.2	11.66 Ac±
T	RANDALL O. & KATHRYN A. LAMM	CLAY	3-36	3.5	3.188 Ac±
U	FOUSS FARMS, LLC	CLAY	3-36	2	6.38 Ac±
V	ANASTASIA M. HILVERS	CLAY	3-36	6.2	14 Ac±
W	FOUSS FARMS, LLC	CLAY	3-36	3.1	12.47 Ac±
X	HEARTWOOD FORESTLAND FUND IV	CLAY	3-31	14.1	168.2 Ac±
Y	DALE W. MOORE, III	CLAY	3-36	1	14.188 Ac±



PROPERTY TIES		
L1	S33°13'W	1531.2'
L2	N69°56'E	1147.9'

HORIZONTAL BORE GEOMETRY		
TH - LP	AZ 034.3053°	2484.0'
LP - BH	AZ 156.9305°	7708.8'

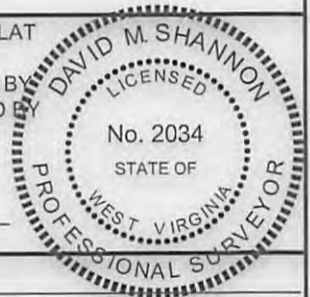
TOTAL HORIZONTAL LENGTH - 11,046'



FILE NO. 7936-002  
 DRAWN BY DMS  
 SCALE 1 INCH = 2000 FEET  
 MIN DEGREE OF ACCURACY 1 IN 2500  
 PROVEN SOURCE OF ELEVATION SURVEY GRADE GPS

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*David M. Shannon*  
 P.S. #2034



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



W.V.D.E.P.  
 OFFICE OF OIL AND GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304

DATE 1-17-2017

OPERATORS WELL NO. WV516565  
 API WELL NO.

STATE 47 COUNTY 085 PERMIT 10262H6A

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 IF "GAS", PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: WATERSHED BUZZARD RUN - NORTH FORK HUGHES RIVER ELEVATION (EXIST) 945.0 (PROP) 938.8  
 COUNTY/DISTRICT RITCHIE COUNTY - CLAY DISTRICT QUADRANGLE PULLMAN - SEC. 2  
 SURFACE OWNER CHRISTA J. SMITH ACREAGE 69.88 AC (DEED) LEASE# 105410  
 OIL & GAS ROYALTY OWNER ASHLEY E. NESS JR., ET AL ACREAGE 150 AC  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) \_\_\_\_\_  
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH 6183  
 WELL OPERATOR: EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
 ADDRESS 115 PROFESSIONAL PLACE, PO BOX 280 BRIDGEPORT, WV 26330  
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COUNTY NAME PERMIT